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MMM     MMM     TT       HH      HH      JJ      MMM     MMM     AA      AA      XX      XX      00      00  
MMM     MMM     TT       HH      HH      JJ      MMM     MMM     AA      AA      XX      XX      00      00  
MM      MM      TT       HH      HH      JJ      MM      MM      MM      AA      AA      XX      XX      00      0000  
MM      MM      TT       HH      HH      JJ      MM      MM      MM      AA      AA      XX      XX      00      0000  
MM      MM      TT       HHHHHHHHHH JJ      JJ      MM      MM      MM      AA      AA      XX      XX      00      00  
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MM      MM      TT       HH      HH      JJ      JJ      JJ      MM      MM      AA      AA      XX      XX      00      00  
MM      MM      TT       HH      HH      JJ      JJ      JJ      MM      MM      AA      AA      XX      XX      000000  
MM      MM      TT       HH      HH      JJ      JJ      JJ      MM      MM      AA      AA      XX      XX      000000
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LL      IIIIIIII SSSSSSSS  
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LLLLLLLLLLLL IIIIIIII SSSSSSSS  
LLLLLLLLLLLL IIIIIIII SSSSSSSS
```

(2)	48	HISTORY	: Detailed Current Edit History
(3)	57	DECLARATIONS	
(4)	83	MTH\$JMAX0, MTH\$AJMAX0	

```
0000 1      .TITLE  MTHSJMAX0      JMAX0 and AJMAX0 functions
0000 2      .IDENT  /1-002/          ; File: MTHJMAX0.MAR
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 FACILITY: MATH LIBRARY
0000 30 ++
0000 31 ABSTRACT:
0000 32
0000 33
0000 34 --
0000 35
0000 36 VERSION: 0
0000 37
0000 38 HISTORY:
0000 39
0000 40 AUTHOR:
0000 41 Jonathan M. Taylor, 12-JUL-77: Version 0
0000 42
0000 43 MODIFIED BY:
0000 44
0000 45
0000 46
```



MTHSJMAX0  
1-002

K 4  
JMAX0 and AJMAX0 functions 16-SEP-1984 01:45:39 VAX/VMS Macro V04-00  
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:26:31 [MTHRTL.SRC]MTHJMAX0.MAR;1 Page 2  
(2)  
0000 48 .SBTTL HISTORY ; Detailed Current Edit History  
0000 49  
0000 50  
0000 51 ; Edit History for Version 0 of MTHJMAX0  
0000 52  
0000 53 0-2 - Fix access violation. TNH 16-Aug-78  
0000 54 1-001 - Update version number and copyright notice. JBS 16-NOV-78  
0000 55 1-002 - Add "\_" to the PSECT directive. JBS 22-DEC-78

```

0000 57      .SBTTL  DECLARATIONS
0000 58
0000 59 :
0000 60 : INCLUDE FILES:
0000 61 :
0000 62 :
0000 63 :
0000 64 : EXTERNAL SYMBOLS:
0000 65 :
0000 66 :
0000 67 :
0000 68 : MACROS:
0000 69 :
0000 70 :
0000 71 :
0000 72 : PSECT DECLARATIONS:
0000 73 : .PSECT  _MTH$CODE      PIC, SHR, LONG, EXE, NOWRT
0000 74 :
0000 75 :
0000 76 : EQUATE~ SYMBOLS:
0000 77 :
0000 78 :
0000 79 :
0000 80 : OWN STORAGE:
0000 81 :

```

```
0000 83 .SBTTL MTH$JMAX0, MTH$AJMAX0
0000 84
0000 85 :++
0000 86 : FUNCTIONAL DESCRIPTION:
0000 87 :
0000 88 :
0000 89 : CALLING SEQUENCE:
0000 90 :     NONE
0000 91 :
0000 92 :
0000 93 : INPUT PARAMETERS:
0000 94 :     NONE
0000 95 :
0000 96 : IMPLICIT INPUTS:
0000 97 :     NONE
0000 98 :
0000 99 : OUTPUT PARAMETERS:
0000 100 :     NONE
0000 101 :
0000 102 : IMPLICIT OUTPUTS:
0000 103 :     NONE
0000 104 :
0000 105 : COMPLETION CODES:
0000 106 :     NONE
0000 107 :
0000 108 : SIDE EFFECTS:
0000 109 :     NONE
0000 110 :
0000 111 :--
0000 112 :
0000 113 :
0000 114 :
0000 115 :
0000 116 .ENTRY MTH$JMAX0, ^M<>
09 10 0002 117 BSB MAXL ; R0 = max arg
04 0004 118 RET
0005 119
0000 120 .ENTRY MTH$AJMAX0, ^M<>
04 10 0007 121 BSB MAXL ; R0 = max arg
50 50 4E 0009 122 CVTLF R0, R0 ; float it
04 000C 123 RET
000D 124
000D 125 :+
000D 126 : MAXL returns the maximum of INTEGER*4 args.
000D 127 :-
000D 128 :
000D 129 MAXL:
51 6C 9A 000D 130 MOVZBL (AP), R1 ; R1 = number of args
8C D5 0010 131 TSTL (AP)+ ; AP -> first arg adr
50 9C D0 0012 132 1$: MOVL @ (AP)+, R0 ; get trial max
08 11 0015 133 BRB 3$ ; check arg count
50 00 BC D1 0017 134 2$: CMPL @0(AP), R0 ; if this arg is greater then trial max
F5 14 001B 135 BGTR 1$ ; then it becomes trial max
8C D5 001D 136 TSTL (AP)+ ; else ignore it
F5 51 F5 001F 137 3$: SOBGTR R1, 2$ ; check arg count
05 0022 138 RSB
0023 139
```

MTHSJMAX0  
1-002

JMAX0 and AJMAX0 functions  
MTHSJMAX0, MTHSAJMAX0

N 4

16-SEP-1984 01:45:39 VAX/VMS Macro V04-00  
6-SEP-1984 11:26:31 [MTHRTL.SRC]MTHJMAX0.MAR;1

Page 5  
(4)

0023 140  
0023 141 .END



MTH\$JMAX0  
Symbol table

JMAX0 and AJMAX0 functions

B 5

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6-SEP-1984 11:26:31 [MTHRTL.SRC]MTHJMAX0.MAR;1

Page 6  
(4)

MAXL 0000000D R 01  
MTH\$AJMAX0 00000005 RG 01  
MTH\$JMAX0 00000000 RG 01

+-----+  
! Psect synopsis !  
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
MTH\$CODE	00000023 ( 35.)	01 ( 1.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

+-----+  
! Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.10	00:00:00.72
Command processing	122	00:00:00.48	00:00:02.55
Pass 1	71	00:00:00.45	00:00:01.64
Symbol table sort	0	00:00:00.01	00:00:00.01
Pass 2	39	00:00:00.32	00:00:01.70
Symbol table output	2	00:00:00.01	00:00:00.02
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	268	00:00:01.39	00:00:06.66

The working set limit was 750 pages.  
1511 bytes (3 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 3 non-local and 3 local symbols.  
141 source lines were read in Pass 1, producing 13 object records in Pass 2.  
0 pages of virtual memory were used to define 0 macros.

+-----+  
! Macro library statistics !  
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:MTHJMAX0/OBJ=OBJ\$:MTHJMAX0 MSRC\$:MTHJMAX0/UPDATE=(ENH\$:MTHJMAX0)



0263 AH-BT13A-SE  
VAX/VMS V4.0

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